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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/646,542	08/21/2003	Koichi Niihara	4041K-000148	9723	
	7590 04/17/2007 CKEY & PIERCE, P.L.C.		EXAMINER		
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			NGUYEN; CAM N		
			ART UNIT	PAPER NUMBER	
			1754		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	04/17/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/646,542	NIIHARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cam N. Nguyen	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
	/ IC OST TO SYODS - MONTH	O) OD THETH (0	0) 0 4) (0			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01/22	2/07 (an amendment/response).					
· <u>-</u> · · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>21-39</u> is/are pending in the application	١.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-39</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <i>originally filed</i> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119			•			
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:	p	(()				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior	• •		Stage			
application from the International Bureau	PCT Rule 17.2(a)).		_			
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)			•			
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
P) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)	atent Application				
Patent and Trademark Office						

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DETAILED ACTION

Response to Amendment

1. Applicants' amendment and remarks, filed January 22, 2006, has been made of record and entered. Claims 1-20 have been canceled. Claims 21-23, 25-26, & 29 have been amended. Claims 21-39 are currently pending.

Claim Rejections - 35 USC § 102(e)

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 21-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Sung (PG Pub. No. US 2002/0131914 A1).

Sung discloses a catalyst composition comprising a mixture of: (a) ceria having a weighted numerical average particle size of not greater than about 100 um and (b) a catalytically effective amount of a platinum-group metal catalytic component disposed on a refractory metal oxide support, said catalyst composition containing substantially no organic compounds nor substantially any zirconia in the form of a composite or a solid solution with said ceria (see page 12, claim 1). The catalyst is disposed on a carrier (see page 12, claim 2). The carrier comprises cordierite (see page 13, claims 3 & 4). The ceria has a weighted numerical average particle size

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of about 1 to about 30 nm (see page 13, claims 5 & 6). See also page 13, claims 7-21 of the reference for details on the refractory metal oxide support materials, etc.

There is no patentable distinction seen between the claimed catalyst and that disclosed by Sung. Thus, the claims are anticipated by the teaching of the reference.

Response to Applicants' Arguments

4. Applicants' amendment and response filed on January 22, 2006 has been fully considered, but not deemed persuasive in view of the new ground of rejection(s) and/or objection(s) above.

The newly applied reference to Sung clearly teaches a catalyst composition having average particle size of less than 100 nm, thus meets the claimed limitation as required in the instant claim 21.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Citations

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form attached.

Conclusion

7. Claims 21-39 are pending. Claims 21-39 are rejected. No claims are allowed.

Contacts

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone number is 571-272-1357. The examiner can normally be reached on M-F, 9:00 AM - 6:30 PM, at alternative work site.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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Information regarding the status of an application may be obtained from the Patent

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Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cam N. Nguyen/

Nguyen/cnn

Primary Examiner

April 13, 2007

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